INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.
třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic
Testing Laboratory No. 1004
accredited by ČIA according to ČSN EN ISO/IEC 17025:2005
L 1004

Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

ACCREDITED LABORATORY TEST REPORT ref.No. 412108409-01

Client:	RPG Recycling, s.r.o. IČ: 41186745
Address:	Vazová 2143, 688 01 Uherský Brod
Sample:	see sample description on page No. 2
Work requested:	Determination of overall migration Determination of primary aromatic amines Determination of reducing substances Proof of ammonium Resistance to saliva and sweat Determination of extractable heavy metals
Sample received on:	September 10, 2018
Report elaborated by:	Dipl. Ing. Dagmar Valeriánová
Place and date of issue:	Zlín, September 26, 2018

AKREDITOVANÁ LABORATOŘ * ZLÍN * 1004 * Institut pro testování a certifikaci, a.s.

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Dipl. Ing. Jiří Samsonek, Ph.D.
Head of Accredited Testing Laboratory

Sample description and identification:

Table No.I Sample description and identification

ITC's identification number	Sample identification by client	Description of submitted sample
412108409/01	SBR granulate black	

Sampling method used:
The samples were supplied to the laboratory by the client. The laboratory is not responsible for mistakes caused by the wrong way of sampling.

Work requested:
Determination of selected parameters according to the requirements of Acta Hygienica Epidemiologica et Microbiologica (AHEM) 3/2000; Table 2 Basic criteria for evaluation of rubber products.

Testing method used:

1. Determination of overall migration according to the ČSN 62 1156, article12
2. Determination of primary aromatic amines according to the ITC internal regulation A -07 - 69
3. Determination of reducing substances according to the ČSN 62 1156, article 9
4. Proof of ammonium according to the ČSN 62 1156, article 17
5. Resistance to saliva and sweat, according to Annex 1 to Decree No. 84/2001 Coll.
6. Determination of extractable heavy metals (Cr, Cd, Co, Ni, Cu, Pb, As, Hg) by ICP-MS method according to the ITC internal regulation A-10-97

Testing conditions:

ad 1. The deviation from the standard - a migration area of 100 cm2 was determined only approximately because the sample was delivered crushed. The migration ratio 100 cm^2/100 ml distilled water, 24 hours, temperature (37±1) °C

ad 2.- 4. Tests were carried out in the extract: 8 g sample in 100 ml distilled water for 24 hours at (37±2) °C

ad 5. Resistance to saliva and sweat was performed at a temperature (40±2) °C for 2 hours

ad 6. Tests were carried out in the extract:10 g sample in 100 ml of artificial acidic sweat for 4 hours at (37±2)°C.

Test results:
The test results are given in the following table No. II:

Table No. II - sample 412108409/01 SBR granulate black

Parameter	Unit	Value obtained[1)]	Uncertainty[2)]	Limit value[3)]	Interpretations
Primary aromatic amines	mg anilinhydrochl./l	< 0,05	-	max. 0,05	Compliance
Overall migration	mg/dm^2	2,0	0,3	max. 10	Compliance
Reducing substances	ml/50 ml	11,0	0,8	max. 30	Compliance
Proof of ammonium	mg NH_4^+/kg	< 2	-	max. 2	Compliance
The results of resistance to saliva and sweat, according to Annex 1 to Decree No. 84/2001 Coll.					
Resistance to sweat	-	resistant	-	resistant	Compliance
Resistance to saliva	-	resistant	-	resistant	Compliance
The content of extractable metals in acidic sweat, related to the product weight					
As content	mg/kg	< 0,10	-	max. 0,2	Compliance
Pb content	mg/kg	< 0,20	-	max. 0,2	Compliance
Cd content	mg/kg	< 0,10	-	max. 0,1	Compliance
Hg content	mg/kg	< 0,02	-	max. 0,02	Compliance
Cr content	mg/kg	< 0,10	-	max. 1,0	Compliance
Co content	mg/kg	< 0,10	-	max. 1,0	Compliance
Cu content	mg/kg	1,43	0,15	max. 25,0	Compliance
Ni content	mg/kg	< 0,10	-	max. 1,0	Compliance

Notes to the table No. II:
1) *Symbol „< " means limit of detection of used analytical method.*
2) *The uncertainty is expressed as the expanded uncertainty with a coverage factor k=2, with a confidence level of 95%*
3) *Limit values according to the AHEM 3/2000;* Table No. 2 Basic criteria for evaluation of rubber products

Evaluated by:
Dipl. Ing. Dagmar Valeriánová

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Dipl. Ing. Věra Vilímková
Laboratory of analytical chemistry and microbiology